

# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2000-157845

(43)Date of publication of application : 13.06.2000

(51)Int.Cl.

B01D 63/02

(21)Application number : 10-336089

(71)Applicant : ASAHI CHEM IND CO LTD

(22)Date of filing : 26.11.1998

(72)Inventor : TANAKA HIDEHIKO

SUGA NOBUHIKO

## (54) HOLLOW FIBER MEMBRANE CARTRIDGE AND ITS FIXING STRUCTURE

### (57)Abstract:

**PROBLEM TO BE SOLVED:** To easily suspend and fix a large dimension hollow fiber membrane cartridge in a housing by fixing a cartridge head formed of a material different from that of a bonding section on one bonded end outer periphery of a hollow fiber membrane bundle and forming a collar protruded to the outside in the diameter direction on the cartridge head.

**SOLUTION:** A hollow fiber membrane cartridge 12 is formed of a number of hollow fiber membranes 11, bonding agent layers 14 and 17, a cartridge head 13 and a skirt member 16. The upper ends of the hollow fiber membranes 11 are opened and their lower ends are closed, and the outer peripheries of the upper ends of a number of hollow fiber membranes 11 are bundled together and their upper end outer peripheries are bonded integrally by a bonding agent to form the bonding agent layer 14, and the bonding agent layer 14 is inserted into the cylindrical cartridge head 13 and fixed on the cartridge head 13. A collar 13a protruded to the outside in the diameter direction is formed on the end face side of a hollow fiber membrane bundle on the cartridge head 13 and the hollow fiber membrane cartridge 12 is suspended and supported on a filter device by the collar 13a.

